WHAT IS CLAIMED IS:

WHAT IS CEAIMED IS.					
1	TARY	1.	A method comprising:		
2 8	1	evalua	ting one or more characteristics associated with one or more signals sent		
3			by a remote communication device to a local communication device,		
4			the signals being sent according to a communication protocol allowing		
5			variability in the one or more characteristics, the one or more		
6			characteristics differing between at least some implementations of the		
7			communication protocol; and		
8		compa	ring the evaluated one or more characteristics to characteristics of		
9			signals sent by known devices.		
1		2.	The method as recited in claim 1 further comprising determining an		
2	identit	y of the	remote communication device based on the comparing of the evaluated		
3	one or	more c	haracteristics.		
1		3.	The method as recited in claim 2 wherein the identity of the remote		
_	comm		on device is determined according to at least one of brand, type or		
	model		, ,,		
1		4.	The method as recited in claim 1 wherein the evaluating occurs during		
2	a train	ing pha	se establishing properties of a communication medium coupling the		
3	remote	comm	unication device to the local communication device.		
1		5.	The method as recited in claim 1 further comprising enabling a		
2	comm	unicatio	on feature according to the comparing of the evaluated one or more		
3	charac	teristics	s to thereby better communicate with the remote communication device.		
1	•	6.	The method as recited in claim 5 wherein the remote communication		
2	device is a digital modem and the communication feature is a request for spectral				
3	shapin	g by an	analog modem.		
1		7.	The method as recited in claim 1 wherein the remote communication		

device one of a digital modem and analog modem.

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1	8. The method as recited in	claim 1 wherein the evaluating is performed
2	in a first communication device operation	g as a modem in accordance with ITU-T
3	Recommendation V.90.	

- 9. The method as recited in claim 1 further comprising enabling one or more performance enhancing or deficiency compensation features according to the comparing of the evaluated one or more characteristics.
- 10. The method as recited in claim 1 wherein the local communication device performs the evaluating by measuring a duration of one or more training signals, duration of the one or more training signals being the one or more characteristics of the one or more signals sent by the remote communication device.
- 11. The method as recited in claim 10 wherein the training signals are modem training signals TRN_{1d} and TRN_{2d} and the duration of the modem training signals are measured and wherein during the comparing, the measured duration is compared to stored duration values to identify the remote communication device.
- 12. The method as recited in claim 10 wherein the duration is measured in terms of a number of symbols transmitted.
- 13. An apparatus comprising:
- means for evaluating one or more characteristics associated with one or more signals sent by a remote communication device coupled to the apparatus; and
- means for comparing the evaluated one or more characteristics to known
 characteristics to determine an identity of the remote communication
 device.
 - 14. The apparatus as recited in claim 13 further comprising means for enabling one or more performance enhancing features according to the identification of the remote communication device.

1	15.	The apparatus as recited in claim 13 further comprising means for		
2	enabling one or more deficiency compensation features according to the identification			
3	of the remote of	communication device.		
1	16.	A computer program product encoded in at least one computer		
2	readable medit	ım, comprising:		
3	a first instruction sequence executable to evaluate one or more characteristics			
4		associated with signals sent by a remote communication device; and		
5	a second instruction sequence executable to compare the evaluated one or			
6		more characteristics to stored characteristics of known communication		
7		devices and to provide a comparison result.		
1	17.	The computer program product as recited in claim 16 wherein the		
2	comparison result is used to determine an identity of the remote communication			
3	device.			
1	18.	The computer program product as recited in claim 16,		
2	wherein the at least one computer readable medium is selected from the set of			
3		a disk, tape or other magnetic, optical, or electronic storage medium		
4		and a network, wireline, wireless or other communications medium.		
1	19.	The computer program product as recited in claim 16 further		
2	comprising an instruction sequence executable to enable a communication feature			
3	according to the comparison result to thereby better communicate with the remote			
4	communication	n device.		
1	20.	The computer program product as recited in claim 19 wherein the		
2	remote communication device is a digital modem and the feature is a request for			
3	spectral shaping by an analog modely			

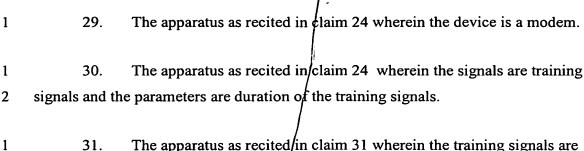
21. The computer program product as recited in claim 16 wherein the computer program product is executable on a device having communication capability and which is coupled to the remote communication device.

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22.	The computer program pro	duct as recited in claim 16 further				
comprising an	instruction sequence execu	able to enable at least one of a performance				
enhancing or deficiency compensation feature according to the identification of the						
remote comm	unication device.					

- 23. The computer program product as recited in claim 16 wherein duration of one or more training signals are the one or more characteristics and wherein the second instruction sequence compares the measured duration to stored duration values to identify the remote communication device.
- 24. An apparatus comprising:
 - a device operable to measure one or more parameters associated with one or more signals sent during a communication session with a remote communications device;
 - storage elements containing known one or more parameters associated with one or more known communication devices; and wherein the device is operable to compare the measured one or more parameters of the one or more signals to the stored one or more parameters of known devices.
- 25. The apparatus as recited in claim 24 further comprising enabling one or more performance enhancing or deficiency compensation features according to the compare of the measured one or more parameters.
- 26. The apparatus as recited in claim 24 wherein comparing the measured one or more parameters is used to determine an identity of the remote communications device.
- 1 27. The apparatus as recited in claim 24 wherein the one or more signals 2 are sent during at least one of transceiver training and channel analysis.
 - 28. The apparatus as recited in claim 24 wherein the one or more parameters is the number of symbols sent.



- 1 31. The apparatus as recited in claim 31 wherein the training signals are
 2 modem training signals TRN_{1d} and TRN_{2d}, duration of the modem training signals
 3 being measured and compared to known durations to determine an identity of the
 4 remote communications device.
- 1 32. The apparatus as redited in claim 24 wherein the apparatus is disposed 2 on a single integrated circuit.
- 1 33. The apparatus as recited in claim 24 wherein the apparatus includes a general purpose processor.